



(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 986 009 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
17.01.2001 Bulletin 2001/03

(51) Int. Cl.⁷: G06F 17/30

(43) Date of publication A2:
15.03.2000 Bulletin 2000/11

(21) Application number: 99117039.0

(22) Date of filing: 30.08.1999

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE

Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 31.08.1998 US 143777

(71) Applicant: XEROX CORPORATION
Stamford, CT 06904-1600 (US)

(72) Inventors:

- Petersen, Karin
Palo Alto, CA 94301 (US)
- Dourish, James P.
San Francisco, CA 94110 (US)
- Edwards, Warren K.
San Francisco, CA 94110 (US)

- Lamarca, Anthony G.
Redwood City, CA 94061 (US)
- Lamping, John O.
Los Altos, CA 94024 (US)
- Salisbury, Michael P.
Mountain View, CA 94040 (US)
- Terry, Douglas B.
San Carlos, CA 94070 (US)
- Thornton, James D.
Redwood City, CA 94063 (US)

(74) Representative:
Grünecker, Kinkeldey,
Stockmair & Schwanhäusser
Anwaltssozietät
Maximilianstrasse 58
80538 München (DE)

(54) Extending application behavior through document properties

(57) A document management system is provided which organizes, stores and retrieves documents according to properties attached to the documents. A property attachment mechanism allows an application to attach arbitrary static and active properties to a document. The active properties include executable code which perform document management functions to control the state and behavior of the document in response to a triggering event. In this manner, the state and behavior of the document is provided to a user and is accurately maintained even when the application is not running.

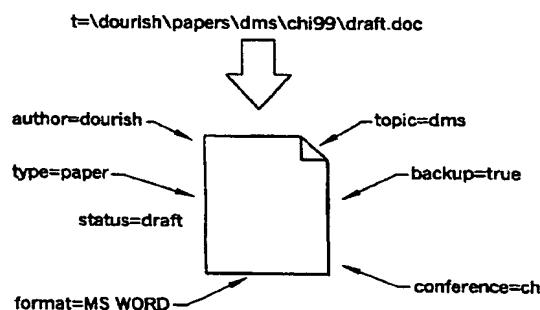


FIG.1

EP 0 986 009 A3



**European Patent
Office**

EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	WO 91 14222 A (INTERLEAF INC) 19 September 1991 (1991-09-19) * abstract * * page 3, line 1 - page 6, line 11 * * page 10, line 1 - page 12, line 28 * * page 13, line 1 - page 19, line 22 * ---	1,2	G06F17/30
X	M. FREDRIKSSON: "Active Documents" SECOND HK/R STUDENT CONFERENCE ON ADVANCED OBJECT-ORIENTED CONCEPTS, 'Online' 17 January 1997 (1997-01-17), pages 1-10, XP002151012 Ronneby, SE Retrieved from the Internet: <URL: http://www.1de.hk-r.se/{bosch/A00C-papers.html} > 'retrieved on 2000-10-20' * abstract * 2. Problem Description, p.1-3 5. The Active Document Model, p.6-9 6. The Active Document Environment, p.10 ---	3,4,7,8	
X	M. FREDRIKSSON & M. SVAHNBERG: "Fargo: Technical Description" 'Online' 1997, UNIVERSITY COLLEGE OF KARLSKRONA/RONNEBY, RONNEBY, SE XP002151013 Retrieved from the Internet: <URL: http://www.sikt.hk-r.se/{fargo} > 1. Introduction, p.1 3. Active Documents, p.3-4 ---	5,6,9-12	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G06F
A	US 5 528 739 A (LUCAS PETER ET AL) 18 June 1996 (1996-06-18) * abstract * * column 1, line 26 - column 2, line 26 * * column 23, line 25 - line 62 * ---	2,8	
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search		Examiner
MUNICH	25 October 2000		Corcoran, P
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
Y : particularly relevant if combined with another document of the same category	E : earlier patent document, but published on, or after the filing date		
A : technological background	D : document cited in the application		
O : non-written disclosure	L : document cited for other reasons		
P : intermediate document	& : member of the same patent family, corresponding document		



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 11 7039

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	<p>G. STAROVIC, V. CAHILL & B. TANGNEY: "An Event-Based Object Model for DIStributed Programming" 'Online! December 1995 (1995-12) , TRINITY COLLEGE DUBLIN, TCD-CS-95-28 , DUBLIN, IE XP002151014</p> <p>Retrieved from the Internet: <URL: http://www.cs.tcd.ie/publications/tech-reports></p> <p>* abstract *</p> <p>2. Objects, Events and Constraints, p.2-6</p> <p>-----</p>	1-12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search		Examiner
MUNICH	25 October 2000		Corcoran, P
CATEGORY OF CITED DOCUMENTS		<p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>8 : member of the same patent family, corresponding document</p>	
<p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p>			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 11 7039

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-10-2000

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9114222	A	19-09-1991	EP US	0518967 A 5579519 A	23-12-1992 26-11-1996	
US 5528739	A	18-06-1996		NONE		

EPO FORM P0458

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82